Fall 2011 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0007	Overall LMA	Total LMA				
Sacramento Maintenance Yard Putah	Rating	Miles				
Creek	M	16.29				
						hments
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles
Earthen Levee	1		T			
Vegetation	1.68		1.68	10.31%		
Trim / Thin Trees	0.04		0.04	0.25%		
Encroachments	0.19		0.19	1.17%	2.16	
Animal Control	0.06		0.06	0.37%		
Erosion / Bank Caving	0.02		0.02	0.12%		
Supplemental			T			
USACE Erosion Survey	0.02		0.02	0.12%		
LMA Totals:	2.01	0.00	2.01	12.34%	2.16	0.00
Unit No. 01 Putah Creek or North Levee	Overall Unit	Total Unit				
LB	Rating	Miles				
ST0007	M	8.99				
					Encroad	chments
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles
Earthen Levee			T			
Vegetation	1.58		1.58	17.58%		
Encroachments	0.01		0.01	0.11%	1.77	
Supplemental				/		
USACE Erosion Survey	0.02		0.02	0.22%		
Unit Totals:	1.61	0.00	1.61	17.91%	1.77	0.00
Unit No. 02 Putah Creek or South Levee	Overall Unit	Total Unit				
RB	Rating	Miles				
ST0007	A	7.30				
					Encroad	chments
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	PO Miles	CO Miles
Earthen Levee						
Vegetation	0.10		0.10	1.37%		
Trim / Thin Trees	0.04		0.04	0.55%		
Encroachments	0.18		0.18	2.47%	0.39	
Animal Control	0.06		0.06	0.82%		
Erosion / Bank Caving	0.02		0.02	0.27%		
Unit Totals:	0.40	0.00	0.40	5.48%	0.39	0.00

LMA District Cover Sheet

Fall 2011 Levee Inspection Results

Sacramento Maintenance Yard Putah Creek

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)				
* Overall LMA Rating (Fall Only)			M					
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating				
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.								
<u>FALL INSPECTIONS:</u> The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.								
Comments								

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sacramento Maintenance Yard Putah Creek

Waterway					Unit Miles		
	Left	8.99					
	Spring Summer (September - November) (March - May) (June - August) Fall						
Unit Maintenance Rating (Fall Only)			M				
Date of Inspection	3/22/2011 - 3/22/2011		10/18/2011 - 10/18/2011				
DWR Inspector	Herman Phillips		Herman Phillips				
Accompanied By			Casey Lund DWR				
Check one:							
project components conditions other tha	vinter (or summer) inspection p identified in the attached Leve n the results of our normal mai ed in the enclosed report.	ee Inspection Report by	Mile. We have found no chang	ges in flo			
project components maintenance and th	vinter (or summer) inspection p identified in the attached Leve e corrections we have made to a flood project conditions.	ee Inspection Report by	Mile. In addition to the results	of our no	ormal		
	ction below or on additional sho n (Land Side, Water Side, or C						
Comments							
One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to: DWR Summer/Winter Inspection Reports 3310 El Camino Avenue, Suite 200 Sacramento, CA 95821-9000							

X

Signature of LMA Representative

Date

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Putah Creek or North Levee	Left	8.99	10/18/2011 10/18/2011	Herman Phillips

LMR No.	Levee	Mile End	Category	Item	Rating ** Location	Action/Comment	GPS Latitude/Longi	luue	Issue No. Photo
1	0.00	0.00	Earthen Levee	Vegetation	WS A	Remove the wild growth other than native grasses from the levee slopes.	38.523535 ° 38.523 -121.631515 ° -121.631		6 Y
2	0.00	0.00	Earthen Levee	Vegetation	LS A	Remove the wild growth other than native grasses from the levee slopes.	38.523535 ° 38.523 -121.631515 ° -121.631		10 Y
3	0.04	0.04	Supplemental	USACE Erosion Survey	WS M	Inspector Comments: 2011: Old cobble site is unraveling, likely causing the toe of the bank to become unstable. [2011 Site ID: PUC_0-1_L]	38.523119 ° 38.521 -121.631356 ° -121.631		11 Y
4	0.27	0.34	Earthen Levee	Encroachments	LS PO	Landscaping	38.520305 ° 38.520 -121.633168 ° -121.634		2
5	0.29	0.29	Earthen Levee	Encroachments	LS PO	Buildings	38.520177 ° 38.520 -121.633528 ° -121.633		3
6	0.35	0.64	Earthen Levee	Encroachments	LS PO	Agricultural Ditch	38.520023 ° 38.519 -121.634700 ° -121.639		7
7	0.59	1.26	Earthen Levee	Encroachments	LS PO	Agricultural Ditch	38.519636 ° 38.516 -121.639113 ° -121.650		18 Y
8	0.65	1.07	Earthen Levee	Vegetation	LS M	Remove the wild growth other than native grasses from the levee slopes.	38.519593 ° 38.517 -121.640036 ° -121.647		13 Y
9	1.38	2.54	Earthen Levee	Vegetation	LS M	Remove the wild growth other than native grasses from the levee slopes.	38.515893 ° 38.516 -121.652181 ° -121.673		1
10	2.11	2.17	Earthen Levee	Encroachments	WS PO	Agricultural Ditch	38.515798 ° 38.515 -121.666497 ° -121.667		9
11	2.18	2.22	Earthen Levee	Encroachments	WS PO	Agricultural Ditch	38.515800 ° 38.515 -121.666500 ° -121.667		8
12	3.09	3.09	Earthen Levee	Encroachments	LS M	Debris	38.519185 ° 38.519 -121.682397 ° -121.682		4
13	5.79	5.89	Earthen Levee	Encroachments	WS PO	Crops	38.518305 ° 38.518 -121.729815 ° -121.731		15
14	6.76	6.93	Earthen Levee	Encroachments	LS PO	Fences	38.517635 ° 38.517 -121.747220 ° -121.750		5
15	6.97	6.97	Supplemental	USACE Erosion Survey	WS M	Inspector Comments: 2011: The toe to mid-bank is slumping. Large tree pop-outs have furthered the erosion. Slope is slightly steeper than 1:1. [2011 Site ID: PUC_7-2_L]	38.517362 ° 38.517 -121.751778 ° -121.752		12 Y
16	7.03	7.07	Earthen Levee	Encroachments	LS PO	Fences	38.517565 ° 38.517 -121.751940 ° -121.752		17
17	8.50	8.82	Earthen Levee	Encroachments	LS PO	Fences	38.521580 ° 38.523 -121.777172 ° -121.782		20

* Location

** Rating

LS : Land Side WS : Water Side CR : Crown A : Acceptable P
M : Minimally Acceptable C
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Putah Creek or North Levee	Left	8.99	10/18/2011 10/18/2011	Herman Phillips

Levee Mile Report Line	1			
Start Levee Mile	0.00			
End Levee Mile	0.00			
Location	Water Side			
Category	Earthen Levee			
Item	Vegetation			
Levee mile 0 00 Putah Creek Unit 1 Photo taken				

10-18-2011.

phillips_f_20111018_021.jpg

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Land side levee mile 0.00 looking downstream Putah Creek. Photo taken 10-18-2011.

phillips_f_20111018_022.jpg				
Levee Mile Report Line	3			
Start Levee Mile	0.04			
End Levee Mile	0.04			
Location	Water Side			
Category	Supplemental			
Item	USACE Erosion Survey			
USACE 2011 Photo #1				
USACE2011_PUC_0-1_L_1.jpg				







* Location

WS : Water Side CR : Crown

A : Acceptable
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N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Putah Creek or North Levee	Left	8.99	10/18/2011 10/18/2011	Herman Phillips

Levee Mile Report Line	3
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	

USACE2011_PUC_0-1_L_2.jpg

Levee Mile Report Line	7
Start Levee Mile	0.59
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agriculture Ditch within 10-foot of levee toe levee mile 0.59-1.26 land side Unit 1 Putah Creek. Photo taken 03-22-2011.

phillips_f_20110929_219.jpg

Levee Mile Report Line	8
Start Levee Mile	0.65
End Levee Mile	1.07
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This ditch is located within the 10-foot easement and has been at this location for several years.

phillips_f_20110929_217.jpg







L	UC	aı	lion	
L	S	: 1	Land	Side

WS : Water Side CR : Crown

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N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Putah Creek or North Levee	Left	8.99	10/18/2011 10/18/2011	Herman Phillips

Levee Mile Report Line	8							
Start Levee Mile	0.65							
End Levee Mile	1.07							
Location	Land Side							
Category	Earthen Levee							
Item	Vegetation							
Another view of ditch looking downstream landward.								
phillips_f_20110929_218.jpg								
Levee Mile Report Line	15							

Levee Mile Report Line	15
Start Levee Mile	6.97
End Levee Mile	6.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
LICACE 2044 Dhata #4	

USACE 2011 Photo #1

USACE2011_PUC_7-2_L_1.jpg

Levee Mile Report Line	15
Start Levee Mile	6.97
End Levee Mile	6.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	

USACE2011_PUC_7-2_L_2.jpg







LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
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U : Unacceptable

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N : Not Inspected, see Inspector Comment

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sacramento Maintenance Yard Putah Creek

	Bank	Unit Miles								
	Unit No. 02 Putah Cre	eek or South Levee		Right	7.30					
	Spring (March - May)	Summer (June - August)	(September - November) Fall		Winter ber - February)					
Unit Maintenance Rating (Fall Only)			Α							
Date of Inspection	3/22/2011 - 3/22/2011		10/18/2011 - 10/18/2011							
DWR Inspector	Herman Phillips		Herman Phillips							
Accompanied By			Casey Lund							
Check one:										
project components conditions other that deficiencies identified During the current with project components maintenance and the following changes in the comment see	 During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report. During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions. (In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS 									
coordinates, location	n (Land Side, Water Side, or C	Town), item identification	on, and description of the curre	ent condi	uon).					
One of the boxes above is information must also be so DWR with any additional state.	Comments One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to: DWR Summer/Winter Inspection Reports 3310 El Camino Avenue, Suite 200 Sacramento, CA 95821-9000									
v										

Date

Signature of LMA Representative

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Putah Creek or South Levee	Right	7.30	10/18/2011 10/18/2011	Herman Phillips

LMR	Levee	Mile	Catagoni	Itom	Location	Rating	Astian/Commant	GPS Latitud	de/Longitude	Issue No.
No.	Start	End	Category	Item	tion	ing	Action/Comment	Start	End	Photo
1	0.00	0.00	Earthen Levee	Vegetation	LS	Α	Remove the wild growth other than native grasses from the levee slopes.	38.504635 ° -121.784083 °	38.504635 ° -121.784083 °	
2	0.17	0.31	Earthen Levee	Encroachments	LS	РО	Agricultural Ditch	38.507113 ° -121.662687 °	38.508968 ° -121.663432 °	
3	0.20	0.30	Earthen Levee	Encroachments	ws	РО	Agricultural Ditch	38.507410 ° -121.662727 °	38.508775 ° -121.663228 °	
4	0.21	0.30	Earthen Levee	Encroachments	ws	РО	Agricultural Ditch	38.507598 ° -121.662815 °	38.508835 ° -121.663212 °	
5	1.09	1.10	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site. Inspector Comments: This location erosion site has been partially repaired by the land owner however there is some controversial issues here between the Maintenance yard and owner as to who is responsible for repairs. PICTURES and a report has been taken on this site.	38.511645 ° -121.676747 °	38.511612 ° -121.676770 °	
6	2.10	2.13	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.515348 ° -121.694042 °	38.515398 ° -121.694590 °	
7	2.10	2.13	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.515350 ° -121.694110 °	38.515385 ° -121.694558 °	
8	6.42	6.42	Earthen Levee	Erosion / Bank Caving	LS	М	Note and monitor erosion site.	38.517417 ° -121.769950 °	38.517417 ° -121.769953 °	
9	6.59	6.65	Earthen Levee	Encroachments	ws	РО	Crops	38.518088 ° -121.772947 °	38.518353 ° -121.773935 °	
10	6.68	6.86	Earthen Levee	Encroachments	LS	М	Material	38.518404 ° -121.774158 °	38.519938 ° -121.776952 °	
11	6.83	6.86	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.519474 ° -121.776414 °	38.519938 ° -121.776951 °	
12	6.95	7.01	Earthen Levee	Vegetation	ws	М	Elderberries are blocking visibility and flood fight capability.	38.520620 ° -121.778278 °	38.521136 ° -121.779077 °	
13	7.03	7.04	Earthen Levee	Vegetation	WS	М	Elderberries are blocking visibility and flood fight capability.	38.521298 ° -121.779452 °	38.521327 ° -121.779505 °	
14	7.05	7.07	Earthen Levee	Vegetation	WS	М	Elderberries are blocking visibility and flood fight capability.	38.521433 ° -121.779715 °	38.521605 ° -121.780055 °	
15	7.16	7.16	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.522242 ° -121.781460 °	38.522242 ° -121.781463 °	
16	7.17	7.18	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	38.522327 ° -121.781477 °	38.522408 ° -121.781638 °	

* Location

LS : Land Side WS : Water Side CR : Crown * Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Putah Creek or South Levee	Right	7.30	10/18/2011 10/18/2011	Herman Phillips

Levee Mile Report Line	1			
Start Levee Mile	0.00			
End Levee Mile	0.00			
Location	Land Side			
Category	Earthen Levee			
Item	Vegetation			
Levee mile 0.00 Unit 2 Putah Creek looking downstream. Photo taken 10-18-2011.				

phillips_f_20111018_023.jpg

Levee Mile Report Line	5
Start Levee Mile	1.09
End Levee Mile	1.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
I .	

Photo shows partial repair of slope damage.

phillips_f_20110929_220.jpg

Levee Mile Report Line	5
Start Levee Mile	1.09
End Levee Mile	1.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

slope damage some repairs made. Proper repair need to be done at this site with compaction test to verify compaction.

phillips_f_20110929_221.jpg







*	L	oc	a	ti	0	n	1	
		_						_

WS : Water Side CR : Crown

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PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor

N : Not Inspected, see Inspector Comment

Levee Inspection Report By Mile - Fall 2011

Sacramento Maintenance Yard Putah Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Putah Creek or South Levee	Right	7.30	10/18/2011 10/18/2011	Herman Phillips

Levee Mile Report Line	5			
Start Levee Mile	1.09			
End Levee Mile	1.10			
Location	Water Side			
Category	Earthen Levee			
Item	Erosion / Bank Caving			
Another view standing on toe of slope looking upstream.				
phillips_f_20110929_222.jpg				



Location